The

Vational Geographic Magazine

AN ILLUSTRATED MONTHLY

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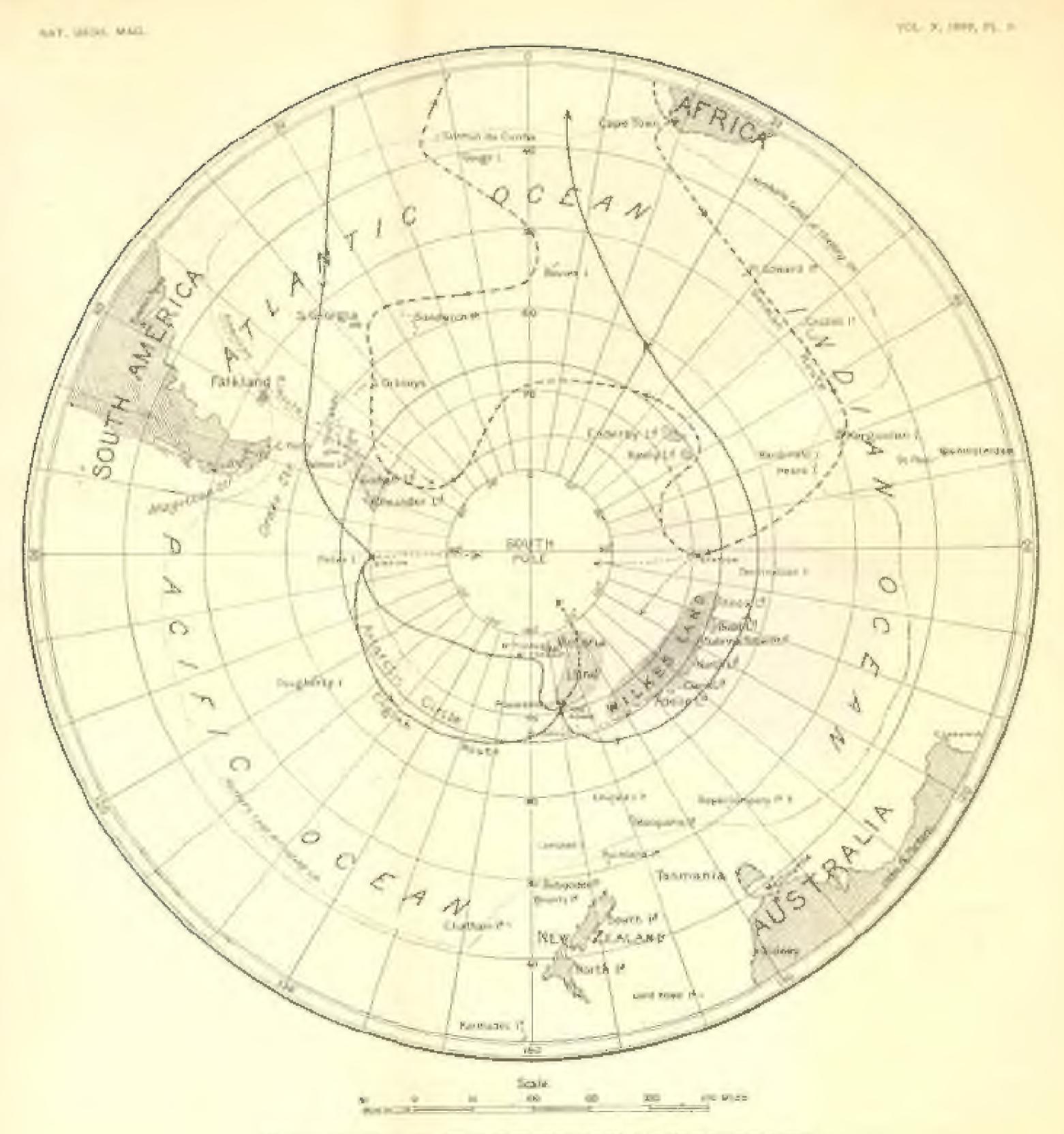
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THE

National Geographic Magazine

Vor X

AUGUST, 1896

No. 5

SHISHALDIN AS A FIELD FOR EXPLORATION

By JOSEPH STANLEY BROWN

The meas within the boundaries of the United States yet untrud by the geologist or explorer are rapidly becoming fewer and fewer, while fields offering angue features of interest to either class of investigators are indeed rurs. Even Abesta, formerly sharmed, is now much in evidence, and is being traversed by private and governmental exploring parties to an extent which promises much to grid iron that northern wilderness with muil toutes and traveled trails, while from the systematic work. being curried on by ments of river, land, and see we may expect at no distruct day far more satisfactory goologic and topographic maps of the territory's vast and previously little known interior than have heretofore existed. Leaving these broader areas to those having special reasons and ample thraneini resources for surmounting the great obstacles they offer attention is asked to a limited field of exploration which for compactness, accessibility, remoney of effort and expense, and probable richness of returns stands unrivated today within our borders.

The route from Sitka to Unabaska has been one of continuous travel by sea going vessels for many years. While making this journey bundreds of voyagers have looked on and exclaimed over the man's foot has yet trial the higher dopes of this splendid come, which routs as shows had creek nearly 2,000 feet above the adjacent son. The eastern half of Unabask island is occur-

A Printeress Planet's plane that he assemble Minimidia is unterpable, being exhibitely based on a printed section that is now of the mountain he distribute. The necesscould not have been made in the improduction in which he ended it was done.

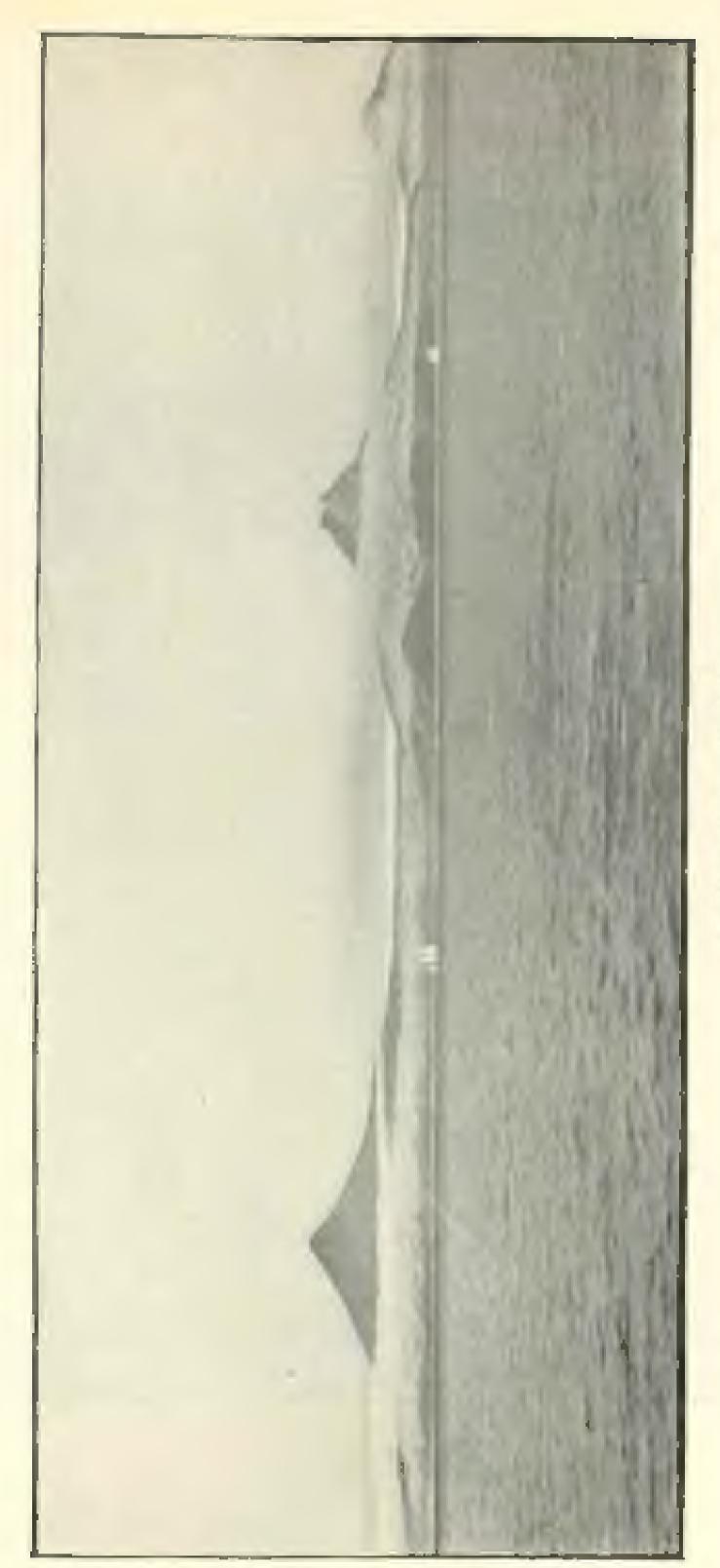
pared by it and the associated peaks. This which, some 70 miles long, with no accesse with of 15 or 20 miles, crowded with extinct concarnes and separatesi only by a shadow passe from the Alestian profession is the first member of the Alestian archipetage—that chain of submerged mountains which with its profongation, the flumtoconder is and, sweeps from continent to continent describing access the North Paritie organ an are of more than a thousand miles.

Shishalded is undoubtedly still in netire volcano, but how active mannet he necurities known until some explorer stands on its summit. There are resent stories by some who chare to have seen than econored vapors thing from it, and by others who assert they say to make of smoke ascending. In 1897 I saw

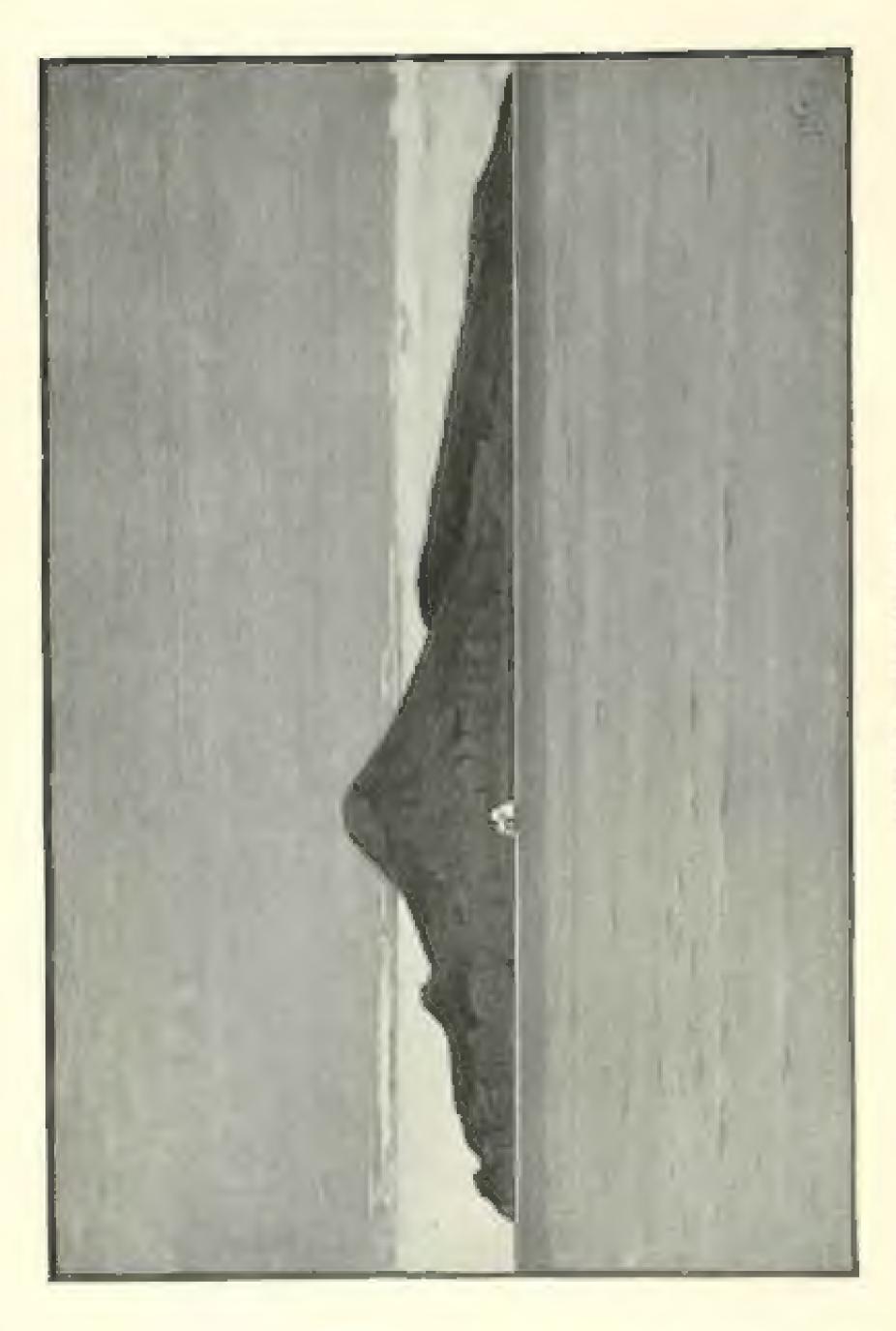


wanting that twells and suggested their by exploration

what appeared to be becomes of steam regging from it, but fogs are frequent here and snow carried by the winds about the peaks of mountains of high altitudes play deceitful pracks. There are two very intelligent and well-to-do traders (Charles Rosenberg and Charles Swanson) who live with their families at Morshovia village, near the base of the mountain. While on a trip in their schooler to Dutch Harber, Unabaska bay, last summer for supplies they told me that the volcano is now in a state of cruption, and that at night they had seen, high on the slopes tonewes of motion have creeping growly down the mountain side and branching around obstacles lying in their course, thus leaving miands between the nery streams. They asserted also that ashes are ejected from the crater, and that on hunting trips they had ascended for enough to detect the heat and recognize the sulphurous formes.



SHARPING LAW ASSESSMENT PRACT



SECTION OF SECURITIES ASSURED ASSURED

The determination of the real conditions is an inviting task. It will probably be formal that Shielablin is a greatile crader cone, one of the largest in the world, and of a symmetry equalrog, if not surpassing, that of Faji-yama. The accompanying reproduced photographs show not only the wonderful regularity and beauty of this cone, but also that it has a neighbor apparently its equal in magnitude and probably the tree volcano as well as the elder of the two. The celationship may be similar to that existing between Lassen peak and the Black Butte cinder cone. As seen from a distance there appears to have been a lava-The parge from the side of Shishaldan which cut a lingu gash. white the eastellated character of the adveced peak suggests a well-formed cruter with rock walls. The view of this most interesting mountain mass as given in the plustration must be interpreted with caution, for the apparent uniformity in the size of the two peaks may be due to varying distances from the camera. which was on the leck of a vessel at least 10 miles from the shore,

Unimak island above, with the story of volcanism it has to tell, is well worth a summer's work, but near by within a circle of a numbered miles radius there are other volcanous with more or loss residual life, which, with Shisha did, force a group so favorably situated for exploration that its systematic study could be ancomplished without great expensu and it is short field season. Pogramicae on the western end of Lormak, is extinct, but on Akutan, the next laland, there is an active volcano of the same name. One unusually favorable day in August, 1892, Mr Charles H. Townsend, of the United States Fish Commission and I climbed one of the peaks of Luniaska bay, which brought Akutan to full view. To our great susprise, we asse gigantic rings of smake, autoli as sometimes come in ministire from the sunkestacks of locamatives, issuing from the grater at regular intervals of atoms twenty minutes. As each succeeding ring appeared, its predecessor was samely broaking up and fading away in the air. Four auch rougs were seen, but how long the disputy hated it was not possible to determine, as the peak became obscured in drifting loomers of fog.

On Unanisha island is the large volcanic mass of Makushin, between 5 000 and 6 000 feet high. From the reports of those who have accorded Makushin at would seem that funancie action is all that is left of its plutonic fires, but earliquakes, some of depended vigor, are annually felt in the locality, while the many all presidences comes and craters test (y to the activity of other days.

Some \$1 or 50 more from Unalasks in a north of west direction are the two tiny dots of rock which compose longuiter Glescia flog orders), whose origin was within historic time and whose form him undergone changes unite recently. Independ of steam stenday rise from one of the mounes, and here the warm earth temperature is now utilized as some one has providily aggreed, to assist in the listering of the eggs of the myrious of gardeness which, a company with a recent of scallons or any these values which, a company with a recent of scallons or any these values explain two lower member of the group, connected with its weighten two lowering strip of sand, is without beat

Suggestions conventing the exploration of these area would be incomplete without reference to methods of reaching them. A and room now makes a monthly trip from Sirka to Hudiaska. This hant is waiter the control of the Pacific Steam Whaling Company a corporation which would wringly extend a helping hand to such work. It would not be difficult to get this vesse to step at the village of Markovia, past which it goes where could be readily sourced the services of such mea as Rosenburg and Suanzon, who are a hundring cabin at the base of Shiat addround have boats and suitable expliquents for each the processory packers. The approach would have to bounds the precessory packers. The approach would have to bound them the Pacific side as here the ground is high barren, and rolling, while on the Bering Sea sole three are lakes and rewamps which would make towel nithead it not impossible.

From Morehovia the mail shamer on its next monthly trip could move the party to Cantison buy where are because the combrable stations of the North American Commercial Company and the Alaska Commercial Company, both of which corperatine would in althese son ler all possible assistance to such an expedition. Here also the aid of a revenue entrerse that of a small selective could be secured to make the short trips to Akatan and Rozoslov. The Revenue Cutter Service has won a little place for itself in the field of there and of expoundion, and is always in syncrathy with shall matters. At A cutan wine twenty or thirty means from Undaska, there is an Indian willings within a beaution bind-neked larbor. Threather party could be left for hour down or two wineles studdes and purkets secured from the Indian village, and the ascent and exploration of the volegon of Akulan recoilly accomplished. Buggaray cand be explored at a round top of two days of possibly less from I make if the conditions for landing were favorable. Using the commer-



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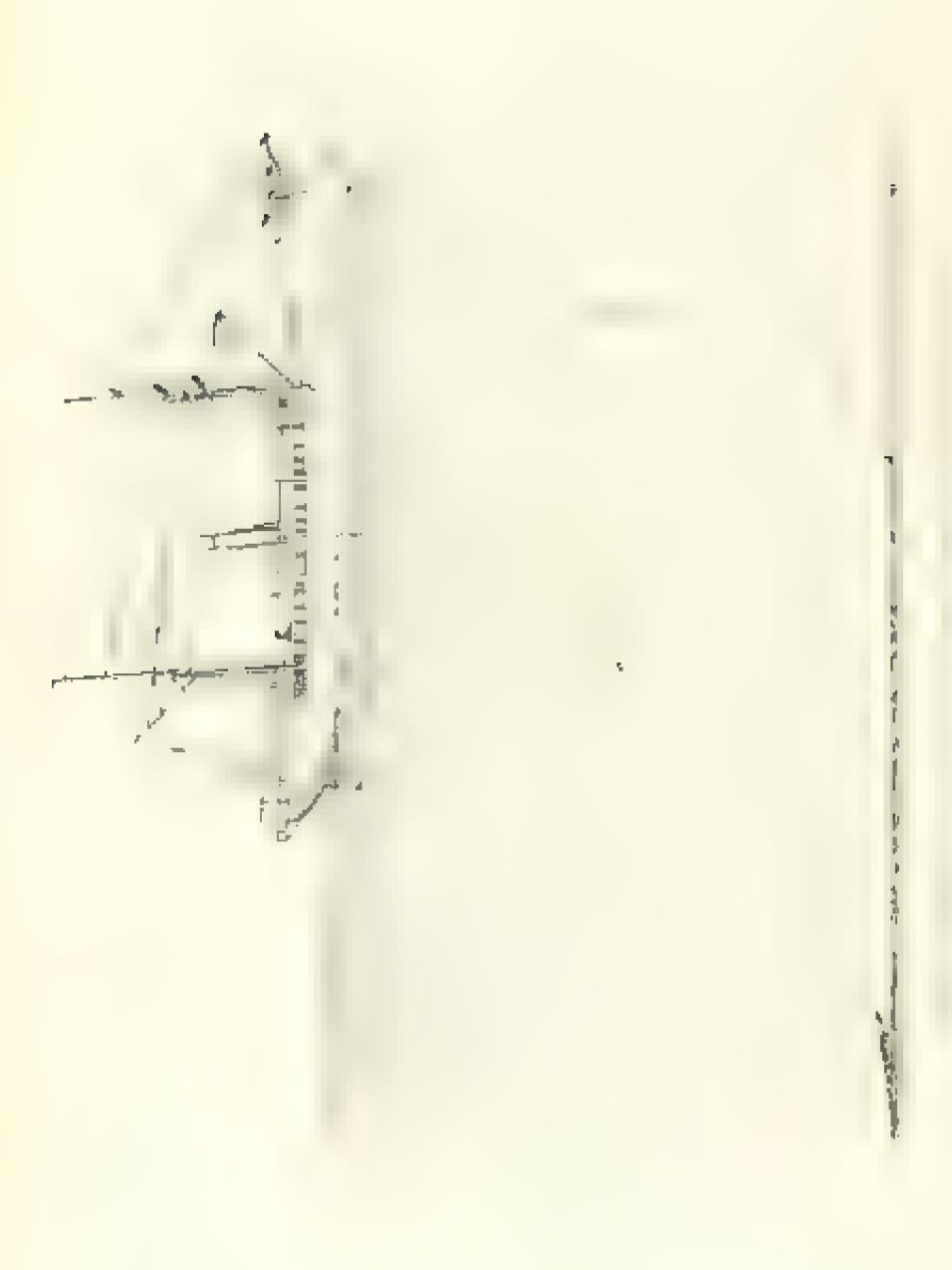
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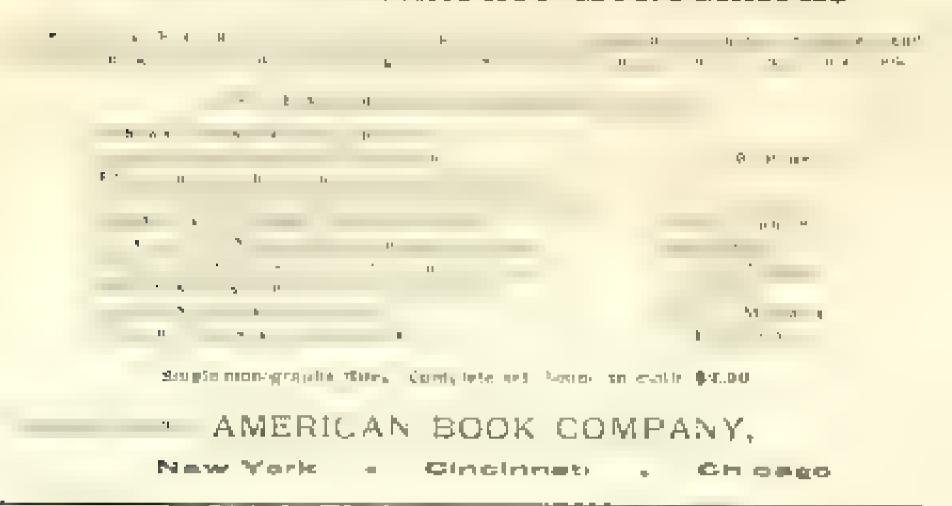
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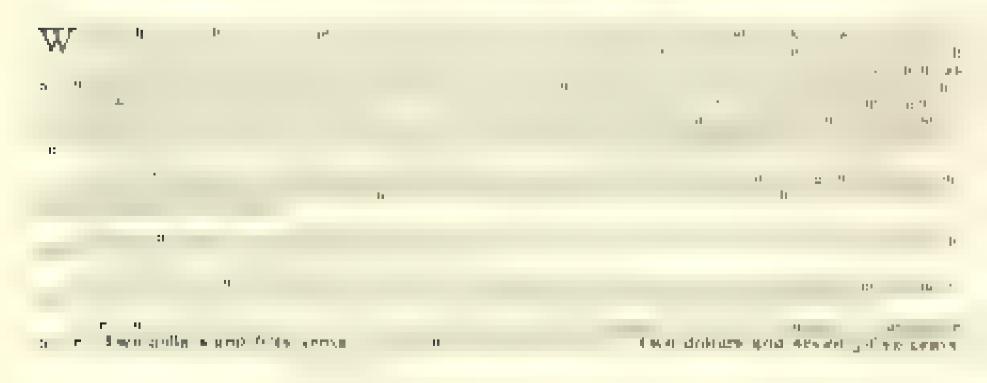
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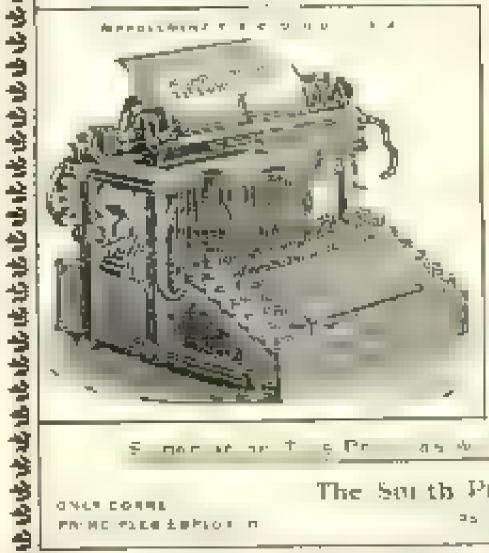
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